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TOPESIA			ATTORNEY DOCKET NO.	CONFIRMATION NO
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		8145
09/701,747	01/29/2001	John N. Wood	620-123	01.15
7590 03/27/2002			EXAMINER	
Nixon & Van 8th Floor			BASI, NIRMAL SINGH	
1100 North Glo Arlington, VA	22201-4714		ART UNIT	PAPER NUMBER
	-		1646	7
			DATE MAILED: 03/27/200	2 ,

Please find below and/or attached an Office communication concerning this application or proceeding.

### Application No.

Applicant(s)

09/701,747

Wood et al

Office Action Summary Examiner

Nirmal S. Basi

Art Unit **1646** 



	The MAILING DATE of this communication appears on	the cover sheet with the correspondence address
7115 67	RTENED STATUTORY PERIOD FOR REPLY IS SET TO	
- Extens afte - If the	sions of time may be available under the provisions of 37 CFR er SIX (6) MONTHS from the mailing date of this communicati period for reply specified above is less than thirty (30) days, a	reply within the statutory minimum of thirty (30) days will
- If NO cor - Failure	period for reply is specified above, the maximum statutory per nmunication. It to reply within the set or extended period for reply will, by standard period for reply will, by standard the months after the m	riod will apply and will expire SIX (6) MONTHS from the mailing date of th tatute, cause the application to become ABANDONED (35 U.S.C. § 133). nailing date of this communication, even if timely filed, may reduce any
	ned patent term adjustment. See 37 CFR 1.704(b).	
Status 1) 💢	Responsive to communication(s) filed on Nov 5, 200	
	This action is <b>FINAL</b> . 2b) \(\overline{\times}\) This action	
3) 🗆	Since this application is in condition for allowance ex closed in accordance with the practice under Ex part	cept for formal matters, prosecution as to the merits is e Quayle, 1935 C.D. 11; 453 O.G. 213.
Disposi	tion of Claims	in large acarding in the application
	Claim(s) <u>1-39</u>	is/are pending in the application.
4	a) Of the above, claim(s)	is/are withdrawn from consideration.
5) 🗌		
6) 🗆		
	Claim(s)	is/are objected to.
8) 🔀	Claims 1-39	are subject to restriction and/or election requirement
	ition Papers  The specification is objected to by the Examiner.	
	The drawing(s) filed on is/are	objected to by the Examiner.
10)└┘	The proposed drawing correction filed on	is: a) approved b) disapproved.
11) 🗀	The proposed drawing correction filed on	nor a ser
12)└┘	The oath or declaration is objected to by the Examir	ici .
Priority	under 35 U.S.C. § 119	
	Acknowledgement is made of a claim for foreign pr	iority under 35 U.S.C. & 119(a)-(u).
a) [	☐ All b)☐ Some* c)☐ None of:	
	1. Certified copies of the priority documents have	e been received.
	2. Certified copies of the priority documents have	e been received in Application No.
ж.	3. Copies of the certified copies of the priority do application from the International Burea See the attached detailed Office action for a list of the	ocuments have been received in this National Stage au (PCT Rule 17.2(a)).  e certified copies not received.
14)	Acknowledgement is made of a claim for domestic	priority and a distance of the same
Attachi	ment(s)	
	Notice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No(s).
	Notice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)
17)	Information Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

- Group I. Claims 1-4, drawn to spasic protein of SEQ ID NO:2 and variants thereof.
- Group II. Claims 5-6, 10-15, 21-27 drawn to nucleic acid comprising the protein of claims 1 and 2, encoded by the nucleic acid of SEQ ID NO:1, variants thereof, vector containing said nucleic acid, cell containing said vector and methods of producing the encoded protein.
- Group III. Claims 28-30 drawn to a method of influencing the electrophysiological and or pharmacological properties of a cell using the nucleic acid of claim 5.
- Group IV. Claims 36 drawn to a method of influencing the electrophysiological and or pharmacological properties of a cell comprising modulating the activity of the protein of claims 1 or 2.
- Group V. Claim 37 drawn to a polypeptide comprising an antigen-binding site of an antibody capable of specifically binding the protein of claim 1 or 2.

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Claims 7, 8, 9, 16-20, 31-35, 38 and 39 have not been grouped because they are improper multiple dependent claims

The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The only technical feature common to present claims disclosed in the claims in parent PCT/GB01743 application is an acid sensitive cation channel protein which is capable of reversibly mediating a rapid and sustained cation current. This protein is disclosed by Rainer Waldman et al (see IDS, Nature, Vol. 386, No.6621, page 173-177, /1997, and can consequently not provide a common inventive concept for the present claims. Because the special technical feature of Group I has been found in the prior art, a technical relationship does not exist between the claimed groups. Therefore, unity of invention is lacking. Groups do not share a special technical feature in any paring because the products are structurally and functionally different and capable of separate use and manufacture. The methods of Groups III-IV do not share a special technical feature because the methods have materially different process steps using different products and each defines a separate invention over the art. Since no technical feature in any group, other than the main invention, is shared by any other invention, unity of invention is lacking.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

## Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nirmal Basi whose telephone number is (703) 308-9435. The examiner can normally be reached on Monday-Friday from 9:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, can be reached on (703) 308-6564. The fax phone number for this Group is (703) 308-0294.

Official papers filed by fax should be directed to (703) 308-4242. Faxed draft or informal communications with the examiner should be directed to (703) 308-0294.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Nirmal S. Basi

Art Unit 1646 March 25, 2002 Hickord D. Pron.
MICHAEL PAK
PRIMARY & "NER